

March 27, 2012

2012 Walnutdale Dairy CNMP Update

Attached you will find the following updates to the Walnutdale Dairy, LLC. CNMP.

- Updated CNMP Text section that reflects the following changes
 - Change in production estimates based on a change in the area of runoff water being collected
 - Change in the acreage in the manure plan based on land base changing hands and management, some fields have been removed from the CNMP, others have been added
 - An email of the Microsoft Word document will be sent to Mr. Washburn at the DEQ office in Kalamazoo that has comments noting the updates made to the CNMP text.
- 2012 Crop plan and yield goals along with fertilizer recommendations
- 2012 Manure application plan to utilize all manure produced at the Walnutdale Dairy facility
- A review of the Mass Balance production of phosphorus and the crop utilization of those nutrients based on new acreages and 2012 crop plans
 - A slight reduction in crop removal rates, but the utilization of phosphorus still exceeds the production of phosphorus in manure from cattle
- A revised calculation sheet of the annual manure and wastewater produced and collected at the Walnutdale facility along with an overview map of the area being collected in the Catch Basin **storage**
 - An Updated copy of the Operations and Maintenance section reflecting correct **storage** times
- **Summary** of Soil tests levels as of 3-27-12
- A set of 2012 Manure Application maps based on the last set of soil tests and with fields removed that are no longer being farmed by Walnutdale
- Fields that are managed by area growers that Walnutdale is putting in the CNMP
 - Field maps with setbacks
 - All crop plans, fertilizer recommendations and manure applications are included in the summaries above
 - Soil Type maps have been included on all new fields
 - RUSLE2 evaluations have been completed on all new fields
 - MARI evaluations will not be run, these fields will not receive manure when they are frozen or snow covered
 - WEQ calculations have been run; the R4-E9N field exceeds the tolerable limit for predicted erosion due to wind. This field may not receive manure applications and should be managed with a cover crop or a permanent forage crop to reduce erosion rates.